

WHAT IS CLAIMED IS:

1. A method for encrypted broadcast services reception, comprising:
requesting a broadcast services transmission;
5 receiving preliminary short time updated key information prior to
receiving a broadcast subscription key for the requested broadcast services
transmission;
receiving an encrypted broadcast services transmission; and
decrypting the encrypted broadcast services transmission using the
10 preliminary short time updated key information.
2. The method according to claim 1, further comprising:
receiving the broadcast subscription key;
receiving short time updated key information;
15 determining a short time updated key using the broadcast subscription
key and the short time updated key information;
receiving the encrypted broadcast services transmission; and
decrypting the encrypted broadcast services transmission using the
short time updated key.
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3. The method according to claim 2, wherein the steps of claim 2 are
performed in response to a user agreeing to pay for the broadcast services
transmission.
- 25 4. The method according to claim 2, wherein the steps of claim 2 are
performed in response to authorizing a user for reception of the broadcast services
transmission.
5. The method according to claim 1, wherein the preliminary short time
30 updated key information includes an encrypted short time updated key.

6. The method according to claim 5,
wherein the method further comprises decrypting the encrypted short
time updated key using a registration key to obtain a decrypted short time updated key,
and
5 wherein the step of decrypting the encrypted broadcast services
transmission using the preliminary short time updated key information comprises
decrypting the encrypted broadcast services transmission using the decrypted short
time updated key.
- 10 7. The method according to claim 1, wherein the preliminary short time
updated key information comprises an unencrypted short time updated key.
8. The method according to claim 1, wherein the preliminary short time
updated key information comprises an unencrypted preliminary short time updated
15 key.
9. The method according to claim 1, wherein the preliminary short time
updated key information comprises an encrypted preliminary short time updated key.
- 20 10. The method according to claim 1, wherein requesting a broadcast
services transmission further comprises requesting a preview broadcast services
transmission.
11. The method according to claim 1, wherein the preliminary short time
25 updated key information comprises multiple sets of preliminary short time updated
key information to allow decryption of the encrypted broadcast services transmission
for a predetermined time period.
12. The method according to claim 1,
30 wherein the preliminary short time updated key information is original
preliminary short time updated key information, and
wherein the method further comprises:

determining the original preliminary short time updated key information is at least one of expired and about to expire; and

requesting additional preliminary short time updated key information to continue decrypting the encrypted broadcast services transmission using the

5 additional preliminary short time updated key information after the original preliminary short time updated key information has expired.

13. A method for encrypted broadcast services transmission, comprising:
receiving a request for a broadcast services transmission;
transmitting a preliminary short time updated key information prior to
transmitting a broadcast subscription key for the requested broadcast services
5 transmission; and
transmitting an encrypted broadcast services transmission.

14. The method according to claim 13, further comprising:
authorizing a user to receive the broadcast services transmission;
10 transmitting the broadcast subscription key in response to authorizing
the user to receive the broadcast services transmission; and
transmitting short time updated key information, the short time updated
key information including a broadcast subscription key element and a short time
updated key element,
15 wherein the encrypted broadcast services transmission is encrypted
using the short time updated key element.

15. The method according to claim 14, wherein authorizing the user to
receive the broadcast services transmission includes authorizing the user based on the
20 user agreeing to pay for the broadcast services transmission.

16. The method according to claim 14, wherein authorizing the user to
receive the broadcast services transmission includes authorizing the user based on
authorizing the user's payment method for the broadcast services transmission.
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17. The method according to claim 13, wherein the preliminary short time
updated key information includes an encrypted short time updated key.

18. The method according to claim 17, wherein the method further
30 comprises encrypting the short time updated key using a registration key to obtain the
preliminary short time updated key information.

19. The method according to claim 13, wherein the preliminary short time updated key information comprises an unencrypted short time updated key.

20. The method according to claim 13, wherein the preliminary short time updated key information comprises an unencrypted preliminary short time updated key.

21. The method according to claim 13, wherein receiving a request for a broadcast services transmission further comprises receiving a request for a preview broadcast services transmission.

22. The method according to claim 13, wherein the preliminary short time updated key information comprises multiple sets of preliminary short time updated key information to allow decryption of the encrypted broadcast services transmission for a predetermined time period.

23. The method according to claim 13,
wherein the preliminary short time updated key information is original preliminary short time updated key information, and
wherein the method further comprises:
receiving a request for additional preliminary short time updated key information;
determining if a preview period is about to expire; and
sending additional preliminary short time updated key information if the preview period is not about to expire.

24. The method according to claim 13,
wherein the preliminary short time updated key information is original preliminary short time updated key information, and
wherein the method further comprises:
determining the original preliminary short time updated key is about to expire; and
sending additional preliminary short time updated key information if the preliminary short time updated key is about to expire.

25. An apparatus for encrypted broadcast services reception, comprising:
a transmitter configured to request a broadcast services transmission;
a receiver configured to receive preliminary short time updated key
information prior to receiving a broadcast subscription key for the requested broadcast
5 services transmission, the receiver also configured to receive an encrypted broadcast
services transmission;
a user identification module including a secure user identification
module memory unit configured to securely store the broadcast subscription key and a
registration key; and
10 a processor configured to decrypt the encrypted broadcast services
transmission using the preliminary short time updated key information.

26. The apparatus according to claim 25,
wherein the receiver is further configured to receive the broadcast
15 subscription key and receive short time updated key information,
wherein the user identification module further includes a secure user
identification module processing unit configured to determine a short time updated
key using the broadcast subscription key and the short time updated key information,
and
20 wherein the processor is further configured to decrypt the encrypted
broadcast services transmission using the short time updated key.

27. The apparatus according to claim 25, wherein the preliminary short
time updated key information includes an encrypted short time updated key.
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28. The apparatus according to claim 27,
wherein the user identification module further includes a secure user
identification module processing unit configured to decrypt the encrypted short time
updated key information using the registration key to obtain a decrypted short time
30 updated key, and
wherein the processor is further configured to decrypt the encrypted
broadcast services transmission using the preliminary short time updated key

information by decrypting the encrypted broadcast services transmission using the decrypted short time updated key.

5 29. The apparatus according to claim 25, wherein the preliminary short time updated key information comprises an unencrypted short time updated key.

 30. The apparatus according to claim 25, wherein the preliminary short time updated key information comprises an unencrypted preliminary short time updated key.

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 31. The apparatus according to claim 25, wherein the preliminary short time updated key information comprises multiple sets of preliminary short time updated key information to allow decryption of the encrypted broadcast services transmission for a predetermined time period.

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 32. The apparatus according to claim 25,
 wherein the preliminary short time updated key information is original preliminary short time updated key information, and

 wherein the processor is further configured to determine the original
20 preliminary short time updated key information is at least one of expired and about to expire and request additional preliminary short time updated key information to continue decrypting the encrypted broadcast services transmission using the additional preliminary short time updated key information after the original preliminary short time updated key information has expired.

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